



Monday, December 14, 2020

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCH26129
Sample ID#s: CH26129 - CH26130

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

December 14, 2020

SDG I.D.: GCH26129

Project ID: GULF CHELSEA TERMINAL 60597375-0500

| Client Id | Lab Id | Matrix |
|-------------|---------|--------------|
| OUTFALL 003 | CH26129 | SW DISCHARGE |
| TRIP BLANK | CH26130 | SW DISCHARGE |



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Analysis Report

December 14, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

| <u>Date</u> | <u>Time</u> |
|-------------|-------------|
| 12/07/20 | 7:20 |
| 12/07/20 | 14:43 |

Laboratory Data

SDG ID: GCH26129
Phoenix ID: CH26129

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------------|-----------|------------|----------|----------|----------------|-------|---------------|
| Oil and Grease by EPA 1664A | < 1.4 | 1.4 | mg/L | 1 | 12/10/20 | MSF | EPA 1664 |
| pH | 7.77 | 1.00 | pH Units | 1 | 12/07/20 19:45 | AP/EG | SM4500-H B-11 |
| Total Suspended Solids | 19 | 5.0 | mg/L | 1 | 12/08/20 | LS/QH | SM 2540D-11 |
| Semi-Volatile Extraction | Completed | | | | 12/07/20 | P/D | SW3520C |

Aromatic Volatiles w/Napthalene

| | | | | | | | |
|------------|----|-----|------|---|----------|----|--------|
| Benzene | ND | 1.0 | ug/L | 1 | 12/07/20 | MH | E624.1 |
| Napthalene | ND | 1.0 | ug/L | 1 | 12/07/20 | MH | E624.1 |

QA/QC Surrogates

| | | | | | | | |
|--------------------------|-----|--|---|---|----------|----|------------|
| % 1,2-dichlorobenzene-d4 | 103 | | % | 1 | 12/07/20 | MH | 70 - 130 % |
| % Bromofluorobenzene | 96 | | % | 1 | 12/07/20 | MH | 70 - 130 % |
| % Dibromofluoromethane | 105 | | % | 1 | 12/07/20 | MH | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 1 | 12/07/20 | MH | 70 - 130 % |

Semivolatiles by SIM, PAH

| | | | | | | | |
|----------------|----|------|------|---|----------|----|--------|
| Benzo(a)pyrene | ND | 0.02 | ug/L | 1 | 12/08/20 | WB | E625.1 |
| Napthalene | ND | 0.10 | ug/L | 1 | 12/08/20 | WB | E625.1 |

QA/QC Surrogates

| | | | | | | | |
|--------------------|----|--|---|---|----------|----|------------|
| % 2-Fluorobiphenyl | 70 | | % | 1 | 12/08/20 | WB | 40 - 140 % |
| % Nitrobenzene-d5 | 80 | | % | 1 | 12/08/20 | WB | 40 - 140 % |
| % Terphenyl-d14 | 57 | | % | 1 | 12/08/20 | WB | 40 - 140 % |

Client ID: OUTFALL 003

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------|--------|------------|-------|----------|-----------|----|-----------|
|-----------|--------|------------|-------|----------|-----------|----|-----------|

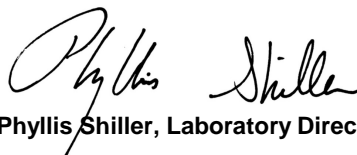
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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**Phyllis Shiller, Laboratory Director****December 14, 2020****Reviewed and Released by: Rashmi Makol, Project Manager**



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Analysis Report

December 14, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

| <u>Date</u> | <u>Time</u> |
|-------------|-------------|
| 12/07/20 | 7:00 |
| 12/07/20 | 14:43 |

Laboratory Data

SDG ID: GCH26129
Phoenix ID: CH26130

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK

| Parameter | Result | RL/ PQL | Units | Dilution | Date/Time | By | Reference |
|-----------------------------------------------|--------|------------|-------|----------|-----------|----|------------|
| <u>Aromatic Volatiles w/Napthalene</u> | | | | | | | |
| Benzene | ND | 1.0 | ug/L | 1 | 12/07/20 | MH | E624.1 |
| Napthalene | ND | 1.0 | ug/L | 1 | 12/07/20 | MH | E624.1 |
| <u>QA/QC Surrogates</u> | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 1 | 12/07/20 | MH | 70 - 130 % |
| % Bromofluorobenzene | 98 | | % | 1 | 12/07/20 | MH | 70 - 130 % |
| % Dibromofluoromethane | 106 | | % | 1 | 12/07/20 | MH | 70 - 130 % |
| % Toluene-d8 | 100 | | % | 1 | 12/07/20 | MH | 70 - 130 % |

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

December 14, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

December 14, 2020

QA/QC Data

SDG I.D.: GCH26129

| Parameter | Blank | Blk RL | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|--------------------------------------------------------------------------------------|-------|-----------|------------------|---------------|------------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 556147 (mg/L), QC Sample No: CH25463 (CH26129) | | | | | | | | | | | | | |
| Oil and Grease by EPA 1664A | BRL | 1.4 | | | | 96.0 | 97.0 | 1.0 | | | | 85 - 115 | 20 |
| Comment: A Blank spike was performed instead of a matrix spike | | | | | | | | | | | | | |
| Additional: MS acceptance range 75-125%. | | | | | | | | | | | | | |
| QA/QC Batch 555783 (mg/L), QC Sample No: CH25527 (CH26129) | | | | | | | | | | | | | |
| Total Suspended Solids | BRL | 2.5 | <3.3 | <3.3 | NC | 98.0 | | | | | | 85 - 115 | |
| QA/QC Batch 555793 (pH), QC Sample No: CH25967 (CH26129) | | | | | | | | | | | | | |
| pH | | | 7.04 | 7.04 | 0 | 98.5 | | | | | | 85 - 115 | 20 |
| Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%. | | | | | | | | | | | | | |



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QA/QC Report

December 14, 2020

QA/QC Data

SDG I.D.: GCH26129

| Parameter | Blank | Blk RL | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|------------------------------------------------------------|-------|-----------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 555710 (ug/L), QC Sample No: CH25650 (CH26129) | | | | | | | | | | |
| <u>Semivolatiles by SIM, PAH</u> | | | | | | | | | | |
| Benzo(a)pyrene | ND | 0.02 | 80 | 88 | 9.5 | 65 | 56 | 14.9 | 40 - 140 | 20 |
| Naphthalene | ND | 0.50 | 74 | 59 | 22.6 | 70 | 70 | 0.0 | 40 - 140 | 20 r |
| % 2-Fluorobiphenyl | 66 | % | 74 | 68 | 8.5 | 68 | 67 | 1.5 | 40 - 140 | 20 |
| % Nitrobenzene-d5 | 56 | % | 85 | 64 | 28.2 | 80 | 82 | 2.5 | 40 - 140 | 20 r |
| % Terphenyl-d14 | 104 | % | 103 | 103 | 0.0 | 85 | 79 | 7.3 | 40 - 140 | 20 |

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 555814 (ug/L), QC Sample No: CH26130 (CH26129, CH26130)

Volatiles

| | | | | | | | | | | |
|--------------------------|-----|------|-----|-----|-----|-----|-----|-----|----------|----|
| Benzene | ND | 0.70 | 94 | 97 | 3.1 | 91 | 94 | 3.2 | 65 - 135 | 20 |
| Naphthalene | ND | 1.0 | 98 | 100 | 2.0 | 94 | 101 | 7.2 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 103 | % | 101 | 100 | 1.0 | 100 | 100 | 0.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 97 | % | 101 | 101 | 0.0 | 100 | 101 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 106 | % | 104 | 102 | 1.9 | 102 | 102 | 0.0 | 70 - 130 | 30 |
| % Toluene-d8 | 102 | % | 99 | 97 | 2.0 | 100 | 100 | 0.0 | 70 - 130 | 30 |


Comment:

A blank MS/MSD was analyzed with this batch.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
December 14, 2020

Monday, December 14, 2020

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCH26129 - AECOME-GULF

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

December 14, 2020

SDG I.D.: GCH26129

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

